

CHEMICO-BIOLOGICAL INTERACTIONS

SUBJECT INDEX

VOLUME 75 (1990)

- N*-Acetyl-*p*-benzoquinone imine, energy metabolism, ATP depletion, cytotoxicity, hepatocytes, 201
- Aflatoxin B₁, protein adducts, biomonitoring, 1
- Alkoxyphenoxazones, alkoxyresorufins, *P*-450 induction, molecular modeling, 325
- Alkoxyresorufins, alkoxyphenoxazones, *P*-450 induction, molecular modeling, 325
- Amino acid transport, teniposide, nucleoside transport, Lara-C, partitioning, membranes, 31
- Amino acid transporter, pig kidney cells, *S*-(1,2,3,4,4-pentachlorobutadienyl)-L-cysteine, apical and basolateral exposure, nephrotoxicity, 119
- Antihepatotoxic properties, hepatic uptake, vitamin E, liposomes, 83
- Apical and basolateral exposure, pig kidney cells, *S*-(1,2,3,4,4-pentachlorobutadienyl)-L-cysteine, amino acid transporter, nephrotoxicity, 119
- Ascorbate, malondialdehyde, muscles, methylene blue, redox state, lipid peroxidation, 213
- ATP depletion, energy metabolism, *N*-acetyl-*p*-benzoquinone imine, cytotoxicity, hepatocytes, 201
- Azidoretinoids, photoaffinity labeling, retinoic acid-binding protein, 293
- Benzoquinone, microsomal glutathione transferase, phenol, hydroquinone, 1,2,4-trihydroxybenzene, drug metabolism, 185
- Benzo[a]pyrene, diol-epoxide, oligonucleotide, specificity, 131
- Benzo[a]pyrene hydroxylase, chrysotile, heme-protein, epoxide hydrolase, glutathione-*S*-transferase, lipid peroxidation, 305
- Biomonitoring, aflatoxin B₁, protein adducts, 1
- Biotransformation, glutathione *S*-transferase, isoenzymes, 241
- Calcium channel drugs, empirical force field calculations, molecular quantum mechanics, mechanism of action, electron transfer, 61
- Catechol, DNA-damage, cigarette smoke, hydrogen peroxide, hydroquinone, 8-hydroxydeoxyguanosine, 71
- Ceruloplasmin, selenium, nickel, metallothionein, rat, 341
- Chromium, mitochondria, respiratory inhibition, toxic mechanisms, 141
- Chrysotile, heme-protein, benzo[a]pyrene hydroxylase, epoxide hydrolase, glutathione-*S*-transferase, lipid peroxidation, 305
- Cigarette smoke, DNA-damage, hydrogen peroxide, hydroquinone, catechol, 8-hydroxydeoxyguanosine, 71
- Copper binding, copper transport, copper uptake, Wilson's disease, diamsar, liver, metallothionein 1, 315
- Copper transport, copper uptake, Wilson's disease, diamsar, liver, metallothionein 1, copper binding, 315
- Copper uptake, copper transport, Wilson's disease, diamsar, liver, metallothionein 1, copper binding, 315
- Covalent binding, *S*-(1,2-dichlorovinyl)-L-cysteine, renal cortical slices, uptake, toxicity, S3 damage, 153
- Covalent binding, photochemical, urocanic acid, DNA, 105
- Cytochrome *P*-450, warfarin metabolism, resistance, mice, 171
- Cytochrome *P*-455 nm complexes, liver microsomes, 2-phenylethanamines, *N*-hydroxy-2-phenylethanamines, peroxxygenase, monooxygenase, 267
- Cytotoxicity, energy metabolism, ATP depletion, *N*-acetyl-*p*-benzoquinone imine, hepatocytes, 201
- Depurination, 7-methyl-dGMP, 7-(2-hydroxyethyl)-dGMP, styrene oxide-dGMP adducts, 281

- Diamsar, copper transport, copper uptake, Wilson's disease, liver, metallothionein 1, copper binding, 315
- S-(1,2-Dichlorovinyl)-L-cysteine, renal cortical slices, uptake, covalent binding, toxicity, S3 damage, 153
- Differential DNA-repair host-mediated assay, genotoxicity, nitrosamines, metabolic activation, *E. coli* K-12, *Drosophila melanogaster*, 17
- Diol-epoxide, benzo[a]pyrene, oligonucleotide, specificity, 131
- DNA, photochemical, covalent binding, urocanic acid, 105
- DNA-damage, cigarette smoke, hydrogen peroxide, hydroquinone, catechol, 8-hydroxydeoxyguanosine, 71
- Drosophila melanogaster*, genotoxicity, nitrosamines, metabolic activation, differential DNA-repair host-mediated assay, *E. coli* K-12, 17
- Drug metabolism, microsomal glutathione transferase, phenol, hydroquinone, benzoquinone, 1,2,4-trihydroxybenzene, 185
- E. coli* K-12, genotoxicity, nitrosamines, metabolic activation, differential DNA-repair host-mediated assay, *Drosophila melanogaster*, 17
- Electron transfer, calcium channel drugs, empirical force field calculations, molecular quantum mechanics, mechanism of action, 61
- Empirical force field calculations, calcium channel drugs, molecular quantum mechanics, mechanism of action, electron transfer, 61
- Energy metabolism, ATP depletion, *N*-acetyl-*p*-benzoquinone imine, cytotoxicity, hepatocytes, 201
- Epoxide hydrolase, chrysotile, heme-protein, benzo[a]pyrene hydroxylase, glutathione-S-transferase, lipid peroxidation, 305
- Exposure monitoring, pyrrolizidine alkaloid, pyrrolic metabolites, sulphur-bound conjugates, metabolite recovery, 225
- Genotoxicity, nitrosamines, metabolic activation, differential DNA-repair host-mediated assay, *E. coli* K-12, *Drosophila melanogaster*, 17
- Glutathione-S-transferase, chrysotile, heme-protein, benzo[a]pyrene hydroxylase, epoxide hydrolase, lipid peroxidation, 305
- Glutathione S-transferase, isoenzymes, biotransformation, 241
- Heme-protein, chrysotile, benzo[a]pyrene hydroxylase, epoxide hydrolase, glutathione-S-transferase, lipid peroxidation, 305
- Hepatic uptake, antihepatotoxic properties, vitamin E, liposomes, 83
- Hepatocytes, energy metabolism, ATP depletion, *N*-acetyl-*p*-benzoquinone imine, cytotoxicity, 201
- Hydrogen peroxide, DNA-damage, cigarette smoke, hydroquinone, catechol, 8-hydroxydeoxyguanosine, 71
- Hydroquinone, DNA-damage, cigarette smoke, hydrogen peroxide, catechol, 8-hydroxydeoxyguanosine, 71
- Hydroquinone, microsomal glutathione transferase, phenol, benzoquinone, 1,2,4-trihydroxybenzene, drug metabolism, 185
- 8-Hydroxydeoxyguanosine, DNA-damage, cigarette smoke, hydrogen peroxide, hydroquinone, catechol, 71
- 7-(2-Hydroxyethyl)-dGMP, depurination, 7-methyl-dGMP, styrene oxide-dGMP adducts, 281
- N*-Hydroxy-2-phenylethanamines, cytochrome P-455 nm complexes, liver microsomes, 2-phenylethanamines, peroxygenase, monooxygenase, 267
- Isoenzymes, glutathione S-transferase, biotransformation, 241
- Kidney, orotate, nucleotides, liver, macromolecular synthesis, 49
- Lara-C, teniposide, nucleoside transport, amino acid transport, partitioning, membranes, 31
- Lipid peroxidation, chrysotile, heme-protein, benzo[a]pyrene hydroxylase, epoxide hydrolase, glutathione-S-transferase, 305
- Lipid peroxidation, malondialdehyde, muscles, methylene blue, ascorbate, redox state, 213
- Liposomes, hepatic uptake, antihepatotoxic properties, vitamin E, 83
- Liposomes, tricyclic carboxamides, phenylquinolines, phenylbenzimidazoles, membrane damage, phosphatidylcholine, 93
- Liver, copper transport, copper uptake, Wilson's disease, diamsar, metallothionein 1, copper binding, 315
- Liver, orotate, nucleotides, kidney, macromolecular synthesis, 49
- Liver microsomes, cytochrome P-455 nm complexes, 2-phenylethanamines, *N*-

- hydroxy-2-phenylethanamines, peroxygenase, monooxygenase, 267
- Macromolecular synthesis, orotate, nucleotides, liver, kidney, 49
- Malondialdehyde, muscles, methylene blue, ascorbate, redox state, lipid peroxidation, 213
- Mechanism of action, calcium channel drugs, empirical force field calculations, molecular quantum mechanics, electron transfer, 61
- Membranes, teniposide, nucleoside transport, Lara-C, amino acid transport, partitioning, 31
- Membrane damage, tricyclic carboxamides, phenylquinolines, phenylbenzimidazoles, liposomes, phosphatidylcholine, 93
- Metabolic activation, genotoxicity, nitrosamines, differential DNA-repair host-mediated assay, *E. coli* K-12, *Drosophila melanogaster*, 17
- Metabolite recovery, pyrrolizidine alkaloid, pyrrolic metabolites, sulphur-bound conjugates, exposure monitoring, 225
- Metallothionein, selenium, nickel, ceruloplasmin, rat, 341
- Metallothionein 1, copper transport, copper uptake, Wilson's disease, diamsar, liver, copper binding, 315
- 7-Methyl-dGMP, depurination, 7-(2-hydroxyethyl)-dGMP, styrene oxide-dGMP adducts, 281
- Methylene blue, malondialdehyde, muscles, ascorbate, redox state, lipid peroxidation, 213
- Mice, warfarin metabolism, resistance, cytochrome P-450, 171
- Microsomal glutathione transferase, phenol, hydroquinone, benzoquinone, 1,2,4-trihydroxybenzene, drug metabolism, 185
- Mitochondria, chromium, respiratory inhibition, toxic mechanisms, 141
- Molecular modeling, alkoxyphenoxazones, alkoxyresorufins, P-450 induction, 325
- Molecular quantum mechanics, calcium channel drugs, empirical force field calculations, mechanism of action, electron transfer, 61
- Monooxygenase, cytochrome P-455 nm complexes, liver microsomes, 2-phenylethanamines, *N*-hydroxy-2-phenylethanamines, peroxygenase, 267
- Muscles, malondialdehyde, methylene blue, ascorbate, redox state, lipid peroxidation, 213
- Nephrotoxicity, pig kidney cells, *S*-(1,2,3,4,4-pentachlorobutadienyl)-L-cysteine, apical and basolateral exposure, amino acid transporter, 119
- Nickel, selenium, metallothionein, ceruloplasmin, rat, 341
- Nitrosamines, genotoxicity, metabolic activation, differential DNA-repair host-mediated assay, *E. coli* K-12, *Drosophila melanogaster*, 17
- Nucleoside transport, teniposide, Lara-C, amino acid transport, partitioning, membranes, 31
- Nucleotides, orotate, liver, kidney, macromolecular synthesis, 49
- Oligonucleotide, benzo[a]pyrene, diol-epoxide, specificity, 131
- Orotate, nucleotides, liver, kidney, macromolecular synthesis, 49
- P-450 induction, alkoxyphenoxazones, alkoxyresorufins, molecular modeling, 325
- Partitioning, teniposide, nucleoside transport, Lara-C, amino acid transport, membranes, 31
- S*-(1,2,3,4,4-pentachlorobutadienyl)-L-cysteine, pig kidney cells, apical and basolateral exposure, amino acid transporter, nephrotoxicity, 119
- Peroxygenase, cytochrome P-455 nm complexes, liver microsomes, 2-phenylethanamines, *N*-hydroxy-2-phenylethanamines, monooxygenase, 267
- Phenol, microsomal glutathione transferase, hydroquinone, benzoquinone, 1,2,4-trihydroxybenzene, drug metabolism, 185
- Phenylbenzimidazoles, tricyclic carboxamides, phenylquinolines, membrane damage, liposomes, phosphatidylcholine, 93
- 2-Phenylethanamines, cytochrome P-455 nm complexes, liver microsomes, *N*-hydroxy-2-phenylethanamines, peroxygenase, monooxygenase, 267
- Phenylquinolines, tricyclic carboxamides, phenylbenzimidazoles, membrane damage, liposomes, phosphatidylcholine, 93
- Phosphatidylcholine, tricyclic carboxamides, phenylquinolines, phenylbenzimidazoles, membrane damage, liposomes, 93
- Photoaffinity labeling, azidoretinoids, retinoic acid-binding protein, 293
- Photochemical, covalent binding, urocanic acid, DNA, 105
- Pig kidney cells, *S*-(1,2,3,4,4-pentachlorobu-

- tadienyl)-L-cysteine, apical and basolateral exposure, amino acid transporter, nephrotoxicity, 119
- Protein adducts, aflatoxin B₁, biomonitoring, 1
- Pyrrolic metabolites, pyrrolizidine alkaloid, sulphur-bound conjugates, metabolite recovery, exposure monitoring, 225
- Pyrrolizidine alkaloid, pyrrolic metabolites, sulphur-bound conjugates, metabolite recovery, exposure monitoring, 225
- Rat, selenium, nickel, metallothionein, ceruloplasmin, 341
- Redox state, malondialdehyde, muscles, methylene blue, ascorbate, lipid peroxidation, 213
- Renal cortical slices, *S*-(1,2-dichlorovinyl)-L-cysteine, uptake, covalent binding, toxicity, S₂ damage, 153
- Resistance, warfarin metabolism, cytochrome P-450, mice, 171
- Respiratory inhibition, chromium, mitochondria, toxic mechanisms, 141
- Retinoic acid-binding protein, azidoretinoids, photoaffinity labeling, 293
- S₂ damage, *S*-(1,2-dichlorovinyl)-L-cysteine, renal cortical slices, uptake, covalent binding, toxicity, 153
- Selenium, nickel, metallothionein, ceruloplasmin, rat, 341
- Specificity, benzo[a]pyrene, diol-epoxide, oligonucleotide, 131
- Styrene oxide-dGMP adducts, depurination, 7-methyl-dGMP, 7-(2-hydroxyethyl)-dGMP, 281
- Sulphur-bound conjugates, pyrrolizidine alkaloid, pyrrolic metabolites, metabolite recovery, exposure monitoring, 225
- Teniposide, nucleoside transport, *Lara-C*, amino acid transport, partitioning, membranes, 31
- Toxicity, *S*-(1,2-dichlorovinyl)-L-cysteine, renal cortical slices, uptake, covalent binding, S₂ damage, 153
- Toxic mechanisms, chromium, mitochondria, respiratory inhibition, 141
- Tricyclic carboxamides, phenylquinolines, phenylbenzimidazoles, membrane damage, liposomes, phosphatidylcholine, 93
- 1,2,4-Trihydroxybenzene, microsomal glutathione transferase, phenol, hydroquinone, benzoquinone, drug metabolism, 185
- Uptake, *S*-(1,2-dichlorovinyl)-L-cysteine, renal cortical slices, covalent binding, toxicity, S₂ damage, 153
- Urocanic acid, photochemical, covalent binding, DNA, 105
- Vitamin E, hepatic uptake, antihepatotoxic properties, liposomes, 83
- Warfarin metabolism, resistance, cytochrome P-450, mice, 171
- Wilson's disease, copper transport, copper uptake, diamsar, liver, metallothionein 1, copper binding, 315

CHEMICO-BIOLOGICAL INTERACTIONS

AUTHOR INDEX

VOLUME 75 (1990)

Alexander, J.	141	Knasmuller, S.	17
Alhonen-Raatesalmi, A.	281	Koivisto, P.	281
Ali, S.	305	Kovacic, P.	61
Andersson, B.S.	201	Kyriakou, P.	315
Appel, M.	119		
Assad, A.	49	Lea, M.A.	49
Ayyala, S.	49	Leanderson, P.	71
		Lindeke, B.	267
Baird, W.	105	Lubet, R.A.	325
Brendel, K.	153	Luke, A.	49
Bupp, J.	293		
		MacNicol, A.D.	171
Chao, W.R.	293	Mattocks, A.R.	225
		McArdle, H.J.	315
Danks, D.M.	315	Mercer, J.F.B.	315
Dawson, M.I.	293	Mertens, J.J.W.M.	119
Dely, M.	213	Mohammad, T.	105
Denny, W.A.	93	Morgenstern, R.	185
Dorsky, A.	293	Morimoto, H.	293
		Morrison, H.	105
Edwards, W.D.	61		
Emery, D.P.	93	Nagle, R.B.	153
		Natale, N.R.	61
Farrow, S.J.	105	Nelson, J.O.	325
Flora, S.J.S.	341	Nelson, S.D.	201
		Nims, R.W.	325
Gandolfi, A.J.	153		
Gibson, G.G.	171	Osborne, M.R.	131
Grimes, A.	315	O'Connor, C.J.	93
Harder S.	201	Puppi, A.	213
Hemminki, K.	281		
Hines, L.H.	31	Rahman, Q.	305
Hobbs, P.D.	293	Rhee, S.	293
		Rundgren, M.	201
Jönsson, K.-H.	267	Ryberg, D.	141
Jukes, R.	225		
		Sabbioni, G.	1
Kehrer, M.	17	Sani, B.P.	293
Keukens, E.A.J.	119	Spengelink, B.	119
Khan, S.G.	305	Sridhar, R.	61
Khandelwal, S.	341	Stevens, J.L.	153
Kiser, P.F.	61	Sunamoto, J.	93

Sutcliffe, F.A.	171	Vodicka, P.	281
Syi, J.-L.	325	Vos, R.M.E.	241
Szakmary, A.	17		
		Wallin H.	185
Tagesson, C.	71	Wendel, A.	83
Tandon, S.K.	341	Werner, A.	83
Tank, H.	93	White, J.C.	31
Temmink, J.H.M.	119	Wille J.J., Jr.,	293
Tigyi, A.	213	Wolfgang, G.H.I.	153
		Wright, S.E.	31
van Bladeren, P.J.	119		
van Bladeren, P.J.	241	Zsoldis, T.	213

